

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2008; month=9; day=22; hr=9; min=20; sec=43; ms=237;]

=====

Application No: 10553353

Version No: 1.0

Input Set:

Output Set:

Started: 2008-09-20 06:05:16.484

Finished: 2008-09-20 06:05:19.023

Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 539 ms

Total Warnings: 21

Total Errors: 0

No. of SeqIDs Defined: 191

Actual SeqID Count: 191

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2008-09-20 06:05:16.484
Finished: 2008-09-20 06:05:19.023
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 539 ms
Total Warnings: 21
Total Errors: 0
No. of SeqIDs Defined: 191
Actual SeqID Count: 191

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> Harri Savilahti et al.

<120> DELIVERY OF NUCLEIC ACIDS INTO EUKARYOTIC GENOMES USING IN VITRO ASSEMBLED
MU TRANSPOSITION COMPLEXES

<130> 0933-0258PUS1

<140> 10553353

<141> 2008-09-20

<160> 191

<170> PatentIn Ver. 2.1

<210> 1

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotide primer

<400> 1

gctctccccg tggaggtaat

20

<210> 2

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotide primer

<400> 2

ttccgtcaca ggtattttatt cggt

24

<210> 3

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotide primer

<400> 3

atcagcggcc gcgatcc

17

<210> 4

<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide primer

<400> 4
ggacgaggca agctaaacag 20

<210> 5
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide primer

<400> 5
ctaataccac tcacataggg cggccgcccg ggc 33

<210> 6
<211> 13
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide primer

<400> 6
gatcgcccg ggc 13

<210> 7
<211> 13
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide primer

<400> 7
ctaggcccg ggc 13

<210> 8
<211> 13
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Oligonucleotide primer	
<400> 8 aattgcccgg gcg	13
<210> 9 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Oligonucleotide primer	
<400> 9 ctaataccac tcacataggg	20
<210> 10 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Oligonucleotide primer	
<400> 10 gggcggccgc ccgggcgatc	20
<210> 11 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Oligonucleotide primer	
<400> 11 gggcggccgc ccgggcctag	20
<210> 12 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Oligonucleotide primer	
<400> 12 gggcggccgc ccgggcaatt	20

<210> 13
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide primer

<400> 13
ctgtcgattc gatactaacg 20

<210> 14
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide primer

<400> 14
ctctagatga tcagcggccg cgatccg 27

<210> 15
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide primer

<400> 15
tgtcaaggag ggtattctgg 20

<210> 16
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide primer

<400> 16
ggtgacccgg cggggacgag gc 22

<210> 17
<211> 23
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotide primer

<400> 17
gatccgtttt cgcatttatc gtg 23

<210> 18
<211> 28
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotide primer

<400> 18
ggccgcatcg ataagcttgg gctgcagg 28

<210> 19
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotide primer

<400> 19
acattgggtg gaaacattcc 20

<210> 20
<211> 18
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotide primer

<400> 20
ccaagttcgg gtgaaggc 18

<210> 21
<211> 22
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotide primer

<400> 21	
ccccgggcga gtctagggcc gc	22
<210> 22	
<211> 30	
<212> DNA	
<213> Saccharomyces cerevisiae	
<400> 22	
caacatctag ctcagctcag tgagttccga	30
<210> 23	
<211> 30	
<212> DNA	
<213> Saccharomyces cerevisiae	
<400> 23	
agtactacca ttgaattgaa tttacgttca	30
<210> 24	
<211> 30	
<212> DNA	
<213> Saccharomyces cerevisiae	
<400> 24	
taaaaattca ggcatggcat atacaattat	30
<210> 25	
<211> 30	
<212> DNA	
<213> Saccharomyces cerevisiae	
<400> 25	
taaaccacca tctgttctgt cgcccatctt	30
<210> 26	
<211> 30	
<212> DNA	
<213> Saccharomyces cerevisiae	
<400> 26	
ctgattacta gcgaagcgaa gctgcgggtg	30
<210> 27	
<211> 30	
<212> DNA	
<213> Saccharomyces cerevisiae	
<400> 27	
aagaaaagct cagtgcagtg gaataatttt	30

<210>	28	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	28	
	gaactctttc cccacccac cgatccattg	30
<210>	29	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	29	
	aaagatgaaa ccgagccgag taagctgcta	30
<210>	30	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	30	
	caatgcatca tctactctac attacaaacc	30
<210>	31	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	31	
	tttggttcacg cgggccgggc cgcagttgtg	30
<210>	32	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	32	
	atctgtatta acttcacttc gaggtagtaa	30
<210>	33	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	33	
	ttttcatgtt cctatcctat tcttggtctt	30
<210>	34	

<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	34	
	tatccacttc ttagattaga gggactatcg	30
<210>	35	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	35	
	aaactgtttt acagaacaga tttacgatcg	30
<210>	36	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	36	
	tggagttagg ctggcctggc tcggactggc	30
<210>	37	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	37	
	gagcttctgc ttcacttcac gttttttgga	30
<210>	38	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	38	
	taacgctaga ggggcggggc aagaaggaag	30
<210>	39	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	39	
	tccaaccgta gtgggtgtggt tatataataa	30
<210>	40	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	

<400>	40	
gggggcaatg gtgaagtgaa atttcgacgc		30
<210>	41	
<211>	30	
<212>	DNA	
<213>	Saccharomyces cerevisiae	
<400>	41	
taagagcttg tccgctccgc ttcgccccaa		30
<210>	42	
<211>	30	
<212>	DNA	
<213>	Saccharomyces cerevisiae	
<400>	42	
cataagtgtg agccaagcca tatgttcctt		30
<210>	43	
<211>	30	
<212>	DNA	
<213>	Saccharomyces cerevisiae	
<400>	43	
tctggcttaa accagaccag cactatgtat		30
<210>	44	
<211>	30	
<212>	DNA	
<213>	Saccharomyces cerevisiae	
<400>	44	
gttgaatctt ccgatccgat accatcgaca		30
<210>	45	
<211>	30	
<212>	DNA	
<213>	Saccharomyces cerevisiae	
<400>	45	
ccctagcgcc tagggtaggg tcgagtactg		30
<210>	46	
<211>	30	
<212>	DNA	
<213>	Saccharomyces cerevisiae	
<400>	46	
ttgctttaac taggatagga aagaataaga		30

<210>	47	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	47	
	agagactgaa gacgagacga ggaaatcaaa	30
<210>	48	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	48	
	atggatggcg ctcaactcaa gcgtgttacc	30
<210>	49	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	49	
	tccatcttct gtggagtgga gaagactcga	30
<210>	50	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	50	
	ttcactcatt ctggtctggt catttcttcg	30
<210>	51	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	51	
	ctagcgcttt acggaacgga agacaatgta	30
<210>	52	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	52	
	ggtaataggc ccgtgccgtg cggttccgtc	30
<210>	53	

<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	53	
	gtggtgccct tccgttccgt caattccttt	30
<210>	54	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	54	
	ttcgctgctc accaaaccaa tggaatcgca	30
<210>	55	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	55	
	aatattatct tctgttctgt cattgttact	30
<210>	56	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	56	
	gtatgtaccc accgaaccga tgtagcagta	30
<210>	57	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	57	
	gttgatggta ccttgcttg acaccagcca	30
<210>	58	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	58	
	tacattgtct tccgttccgt aaagcgctag	30
<210>	59	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	

<400> 59	
ccgtggaagc ctgcctcgc ccgatgagtt	30
<210> 60	
<211> 30	
<212> DNA	
<213> <i>Saccharomyces cerevisiae</i>	
<400> 60	
tttcttttcc tccgctccgc ttattgatat	30
<210> 61	
<211> 30	
<212> DNA	
<213> <i>Saccharomyces cerevisiae</i>	
<400> 61	
gctgcgtctg accaaaccaa ggcctcact	30
<210> 62	
<211> 30	
<212> DNA	
<213> <i>Saccharomyces cerevisiae</i>	
<400> 62	
tactgttgaa ccgggccggg tcgtacaact	30
<210> 63	
<211> 30	
<212> DNA	
<213> <i>Saccharomyces cerevisiae</i>	
<400> 63	
caaatgtatc agcagagcag atgtacttcc	30
<210> 64	
<211> 30	
<212> DNA	
<213> <i>Saccharomyces cerevisiae</i>	
<400> 64	
agtttccgct ataaaataaa taatggcagc	30
<210> 65	
<211> 30	
<212> DNA	
<213> <i>Saccharomyces cerevisiae</i>	
<400> 65	
aaaggaattg ctaggctagg ggcattactc	30

<210>	66	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	66	
	aaaaataatt actctactct aacatttctt	30
<210>	67	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	67	
	tgtttatatg atgacatgac gattttccca	30
<210>	68	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	68	
	ttgtgtattt ttgatttgat tgaaaatgat	30
<210>	69	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	69	
	tatgataatc aaggcaaggc ataattgact	30
<210>	70	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	70	
	cagcattaata acggcacggc agcaaagccc	30
<210>	71	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	71	
	ttgacatgtg atctgatcgt cacagatttt	30
<210>	72	

<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	72	
	tcagctctca gcagagcaga gaaaaaattt	30
<210>	73	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	73	
	tgctaggtgt gtctggctctg tttatgcatt	30
<210>	74	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	74	
	caattgaggt ttgaattgaa attgctggcc	30
<210>	75	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	75	
	aatcatgcat tgcattgcat aatgtggtat	30
<210>	76	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	76	
	acgatcttac gtcgggtcgg ctatctcacc	30
<210>	77	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	77	
	ttgtatttaa actggactgg agtgatttat	30
<210>	78	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	

<400> 78	
tgcatatttg cctgccctgc gaaaaaaagt	30
<210> 79	
<211> 30	
<212> DNA	
<213> <i>Saccharomyces cerevisiae</i>	
<400> 79	
tcgttgaata atggaatgga aaatatgaaa	30
<210> 80	
<211> 30	
<212> DNA	
<213> <i>Saccharomyces cerevisiae</i>	
<400> 80	
ctttcccaga accagaccag ggaaactgtt	30
<210> 81	
<211> 30	
<212> DNA	
<213> <i>Saccharomyces cerevisiae</i>	
<400> 81	
cctctgcatc ccaacccaac accagcgata	30
<210> 82	
<211> 30	
<212> DNA	
<213> <i>Saccharomyces cerevisiae</i>	
<400> 82	
atctgtaaac tcgcttcgct tgtgacgatg	30
<210> 83	
<211> 30	
<212> DNA	
<213> <i>Saccharomyces cerevisiae</i>	
<400> 83	
tcctgcctaa acaggacagg aagacaaagc	30
<210> 84	
<211> 30	
<212> DNA	
<213> <i>Saccharomyces cerevisiae</i>	
<400> 84	
tagaaaaaac cacaacacaa caacactatg	30

<210>	85	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	85	
	ttttggctcg tccgggccgg atgatgcgaa	30
<210>	86	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	86	
	tgtggctacc gcccgccccg tgattcgggc	30
<210>	87	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	87	
	ggcatagtgc gtgttggtgtt tatgcttaaa	30
<210>	88	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	88	
	aaaatgcaac gcgaggcgag agcgctaatt	30
<210>	89	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	89	
	gaacagttcc acgccacgcc tgatatgagg	30
<210>	90	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	90	
	agcgcgactg cccgaccgga agaaggacgc	30
<210>	91	

<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	91	
	aaaaggttca gtagagtaga aacataaaat	30
<210>	92	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	92	
	ccacaaggac gccttgccctt attcgtatcc	30
<210>	93	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	93	
	cagaatccat gctaggctag aacgcggtga	30
<210>	94	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	94	
	cagctgctac ccaggccagg gattgccacg	30
<210>	95	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	95	
	ctagccgttc atcaaataca tcatgtcaaa	30
<210>	96	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	
<400>	96	
	caaaaaagtc tagagtagag gaaaaaaacg	30
<210>	97	
<211>	30	
<212>	DNA	
<213>	<i>Saccharomyces cerevisiae</i>	

<400> 97
ttgtcaaagt accgaaccga tcatgacaat 30

<210> 98
<211> 30
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 98
gtaacatctt gggcggggcg tttgcaacac 30

<210> 99
<211> 30
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 99
actgcctttg ctgagctgag ctggatcaat 30

<210> 100
<211> 30
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 100
aatgtaaaag gcaaggcaag aaaacatgta 30

<210> 101
<211> 30
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 101
gcctgaatt